



# **MAPPING YOUR INVESTMENTS TO THE FEDERAL ENTERPRISE ARCHITECTURE**

**August 2005**





# Agenda

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- Exhibit 53 and 300 Overview
- Draft Exhibit 53 Review - Common Issues
- EA Reference Models
- What You Need to Begin Mapping
- Hypothetical Project
  - BRM Example
  - PRM Example
  - SRM Example
  - TRM Example
- Practice Exercise
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## Exhibit 53 and 300 Overview

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- Only two sections of the entire OMB Circular A-11
- Exhibit 53 - (Agency IT Investment Portfolio)
  - Allows review of Agency IT spending and comparison of IT spending across the Federal Government
  - Consists of four parts and captures entire Agency IT Investment Portfolio (all IT investments)
- Exhibit 300 – (Capital Asset Plan and Business Case)
  - Budget justification and business case for a major investment
  - Consists of two parts, divided into ten main areas
- Comparison between the Exhibit 53 and 300
  - Exhibit 53 is one per agency, while the Exhibit 300 is one for each major investment (usually many for each agency)
  - Exhibit 53 is submitted to OMB via a spreadsheet, while the Exhibit 300 is submitted via XML
  - Information must be consistent between both Exhibit 53 and 300



## Draft Exhibit 53 Review – Common Issues

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- Map to the function of the investment
  - Not to the function of the program or mission of the Agency
- Primary BRM mapping should be to the business and sub-function the investment most directly supports
  - An investment can have multiple valid mappings
  - For major investments, additional (up to 3) non-primary mappings can be included in Part II.A.I.E of the Exhibit 300
- Mode of Delivery is not a valid primary BRM mapping
  - Agencies must select one of the other BRM Business Areas
- Evaluate use of the Information and Technology Mgmt (404) or Administrative Mgmt (401) mappings
  - Tend to be over-utilized and are not for mission-specific functions
- Refer to Consolidated Reference Model (CRM)
  - Found on FEA website - [www.egov.gov](http://www.egov.gov)



# FEA Background

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- **BRM** – provides a framework facilitating a functional (not organizational) view of the federal government's Lines of Business (LOBs)
- **PRM** – provides a common language by which an agency EA can connect IT investments to the agency's ability to achieve agency and program performance objectives
- **SRM** – provides a functional framework that classifies Service Components with respect to how they enable business and support performance objectives
- **TRM** – provides a framework to describe how technology supports the secure delivery, exchange, and construction of Service Components.



# What You Need to Begin Mapping

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- FEA Models (BRM, PRM, SRM, & TRM)
- Your Agency Enterprise Architecture
- Your Agency Strategic Plan
- Your Agency IRM Strategic Plan
- Your Bureau Performance Plan
- Your Investment Plans



# Understanding Your Investment

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- What is your agency mission?
- What are your organization's contributions to your agency mission?
- What major functions does your organization perform to contribute to your agency mission?
- What are the core processes of these major functions?
- Is automation the most effective and efficient method of meeting your business needs?
- What type of IT investment would most effectively and efficiently automate your business requirements?



## Hypothetical Project

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- Your IT investment is to provide information on opportunities for assistance for the disadvantaged.
  - One of your strategic goals is to decrease the number of disadvantaged people in the US.
  - Your target EA indicates the agency is heading toward web access to all customers by 2007.





# BRM Example

QUESTIONS	EXAMPLE ANSWERS	PURPOSE
Does the business activities associated with the investment predominantly support an external or internal program?	This investment supports an external, “Services to Citizens,” program since the investment’s business process delivers a direct benefit to citizens	Identify the primary Business Area <i>(Service to Citizens)</i>
What business processes does this investment support and what is the purpose of the investment?	The investment supports providing opportunities for economic growth to the disadvantaged sector of the population.	Identifies Line of Business <i>(Community and Social Services)</i> <i>(Knowledge Creation and Management)</i> <i>(Public Affairs)</i> <i>(Information and Technology Management)</i>
Using the business processes and functions (aligned to the investment) identify the core BRM sub-functions that most closely map with the purpose of the investment.	Supports notifying disadvantaged citizens of opportunities of social and economic growth.	Identifies sub-function <i>(Social Services) - Primary</i>
What support does the investment provide to these processes or programs?	Supports providing information on available services provided to the disadvantaged.  Provides a web-based vehicle for providing information to citizens.  Coordinating, collecting, storing, disseminating, and destroying information.	Identifies “Mode of Delivery” Sub-function <i>(Knowledge Dissemination) - Secondary</i>  Identifies support sub-function <i>(Official Information Dissemination) – Secondary</i>  Identifies Support sub-function <i>(Information Management) - Secondary</i>

There is a one-to-one relationship between sub-function and LoB.  
Service to Citizen Business Area must have Mode of Delivery as a secondary Business Area.  
Information and Technology Management LoB can only be used for infrastructure projects.



# PRM Example

FISCAL YEAR	MEASUREMENT AREA	MEASUREMENT CATEGORY	MEASUREMENT GROUPING	MEASUREMENT INDICATOR	BASELINE	PLANNED IMPROVEMENTS TO BASELINE	ACTUAL RESULTS
2007	Mission and Business Results	<i>Community and Social Services</i>	<i>Social Services</i>	<i>Percent of population disadvantaged</i>	<i>3%</i>	<i>2%</i>	OUTCOME
2007	Mission and Business Results	<i>Knowledge Creation and Management</i>	<i>Knowledge Dissemination</i>	<i>Percent of Disadvantaged population with knowledge of opportunities</i>	<i>30%</i>	<i>50%</i>	OUTCOME
2007	Customer Results	Service Coverage	<i>New Customers and Market Penetration</i>	<i>Percent of first time users</i>	<i>2%</i>	<i>10%</i>	OUTCOME
2007	Processes and Activities	Security and Privacy	<i>Security</i>	<i>Number of times per month website compromised</i>			OUTPUT
2007	Technology	Financial	<i>Operations and Maintenance Costs</i>	<i>Total Operations and Maintenance costs per year</i>			INPUT
2007	Technology	Quality	<i>Functionality</i>	<i>System uptime</i>			INPUT

You must have at least one Measurement Indicator for Mission and Business Results, Customer Results, Processes and Activities and Technology for each sub function for each year the project is in development.



# SRM Example

QUESTION	EXAMPLE ANSWER
What applications, systems, or Logical modules support the Investment?	No application currently exists to support this investment.
What functionalities or Components are identified as Being provided by the Applications?	The ability to track customers The ability to support different languages The ability to select by category Match assistance seekers with assistance providers
Describe the capabilities Required to meet each of the Functionalities.	Determine number of customers and profiles Provide information in different languages Provide information in categories Provide other sources of assistance
Using the capabilities identified Above select the SRM Component(s) that most closely Fit.	<i>Contact Management</i> <i>Multi Lingual Support</i> <i>Categorization</i> <i>Information Retrieval</i>

Relation to SRM (i.e., Component Description)	Service Domain	Service Type	Component	New Component? (Yes or No)
Determine number of customers and profiles	Customer Services	Customer Relationship Management	<i>Contact Management</i>	No
Provide information in different languages	Customer Services	Customer Initiated Assistance	<i>Multi Lingual Support</i>	No
Provide information in categories	Digital Asset Services	Knowledge Management	<i>Categorization</i>	No
Provide other sources of assistance	Digital Asset Services	Knowledge Management	<i>Information Retrieval</i>	No

If the component exists within the SRM but is new to the agency, then the component is not new.

If the component meets the definition contained in the SRM and there is not an existing component that has a similar definition, it can be a new component.



# TRM Example

QUESTION	EXAMPLE ANSWER
What components were identified for this Investment?	<i>Contact Management</i> <i>Multi Lingual Support</i> <i>Categorization</i> <i>Information Retrieval</i>
What Standards support the components?	Delivery Channel – Internet Service Transport – (https) Service Requirements – Legislative/Compliance Data Management
Determine which standards are used by All components (i.e., not specific to one Component?)	Supporting security services

Relation to SRM	Service Area	Service Category	Service Standard
<i>Contact Management</i>	Service Access and Delivery	Access Channels	Internet Explorer
<i>Content Management</i>	Service Access and Delivery	Service Requirements	Legislative/Compliance
<i>Content Management</i>	Service Access and Delivery	Service Transport	Service Transport
<i>Multi Lingual Support</i>	Service Access and Delivery	Access Channels	Internet Explorer
<i>Categorization</i>	Component Framework	Data Management	Database Connectivity
<i>Information Retrieval</i>	Service Access and Delivery	Access channels	Internet Explorer



# Practice Exercise

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- **You work for an agency dealing with recruitment of Human Resources (HR)**
  - Your agency target EA states you will become a HR Service Center in 2007
  - The Government has a 20% vacancy rate, increasing to 30% within two years
  - You expect to be fully operational by 2008 with electronic signature capability and customers will be able to initiate requests on-line.
  - Your Strategic Plan indicates you will have a fully staffed government by 2010.
  - You are maintaining several applications containing information you need as you transition to a HR service center
- **Answer the questions in the examples and come up with at least:**
  1. One primary and one secondary BRM mapping
  2. One performance measurement indicator for each area in the PRM:
    - a. Mission and Business Results
    - b. Customer Results
    - c. Processes and Activities
    - d. Technology
  3. Two service components for the SRM
  4. Two TRM standards or components (mapped to the two service components identified above)



# Questions/Comments

[www.egov.gov](http://www.egov.gov)